

# INTERNATIONAL SEARCH REPORT

Inten. no. Application No  
PCT/IB 03/02224

**A. CLASSIFICATION OF SUBJECT MATTER**  
**IPC 7 H01Q5/00 H01Q1/38 H01Q1/24**

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
**IPC 7 H01Q**

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

**EPO-Internal, WPI Data, PAJ**

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2001/015701 A1 (KAWAHATA KAZUNARI ET AL) 23 August 2001 (2001-08-23) abstract ---	1-4, 12-14
X	US 2001/050643 A1 (EGOROV IGOR ET AL) 13 December 2001 (2001-12-13) abstract ---	1,3,13, 14
A	US 6 166 694 A (YING ZHINONG) 26 December 2000 (2000-12-26) abstract ---	1-14 -/-

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

\* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
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- \*P\* document published prior to the international filing date but later than the priority date claimed

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\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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\*&\* document member of the same patent family

Date of the actual completion of the international search

**15 August 2003**

Date of mailing of the international search report

**22/08/2003**

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,X	PATENT ABSTRACTS OF JAPAN vol. 2003, no. 01, 14 January 2003 (2003-01-14) & JP 2002 271129 A (HITACHI LTD;HITACHI METALS LTD), 20 September 2002 (2002-09-20) abstract -----	1-3,12, 13

**INTERNATIONAL SEARCH REPORT**

Information on patent family members

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